

**TDMS No.** 99023 - 01  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** RATS/F 344/N

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**  
beta-Myrcene  
**CAS Number:** 123-35-3  
  
F2\_R2

**Date Report Requested:** 06/08/2009  
**Time Report Requested:** 12:50:40  
**First Dose M/F:** 01/29/01 / 01/30/01  
**Lab:** BAT

**C Number:** C99023  
**Lock Date:** 10/17/2001  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.1.0

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FISCHER 344 RATS MALE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG	4.0 G/KG
<b>Disposition Summary</b>						
Animals Initially in Study	10	10	10	10	10	10
Early Deaths						
Dosing Accident			1	1		
Moribund Sacrifice						2
Natural Death					2	8
Survivors						
Terminal Sacrifice	10	10	9	9	8	
Animals Examined Microscopically	10	10	10	10	10	10
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(10)	(0)	(1)	(1)	(10)	(10)
Perforation			1 (100%)			
Intestine Small, Jejunum	(10)	(0)	(1)	(1)	(10)	(10)
Atrophy					2 (20%)	
Liver	(10)	(0)	(2)	(1)	(10)	(10)
Fibrosis, Focal					1 (10%)	
Hepatodiaphragmatic Nodule	1 (10%)		1 (50%)			
Inflammation, Chronic					1 (10%)	
Oral Mucosa	(0)	(0)	(0)	(0)	(2)	(0)
Inflammation, Chronic					1 (50%)	
Pancreas	(10)	(0)	(1)	(1)	(10)	(10)
Acinus, Atrophy	1 (10%)				1 (10%)	
Stomach, Forestomach	(10)	(0)	(1)	(10)	(10)	(10)
Inflammation, Acute					1 (10%)	9 (90%)
Ulcer						5 (50%)
<b>CARDIOVASCULAR SYSTEM</b>						
Heart	(10)	(0)	(1)	(1)	(10)	(10)
Inflammation, Chronic Active	5 (50%)					
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(0)	(1)	(1)	(10)	(10)
Hemorrhage					1 (10%)	
Hyperplasia, Focal	2 (20%)					

a - Number of animals examined microscopically at site and number of animals with lesion

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FISCHER 344 RATS MALE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG	4.0 G/KG
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Epididymis	(10)	(0)	(1)	(1)	(10)	(10)
Degeneration					1 (10%)	
Preputial Gland	(10)	(0)	(1)	(1)	(10)	(10)
Inflammation, Suppurative						1 (10%)
Seminal Vesicle	(10)	(0)	(1)	(1)	(10)	(9)
Atrophy					1 (10%)	
Testes	(10)	(0)	(1)	(1)	(10)	(10)
Germinal Epithelium, Degeneration					1 (10%)	
HEMATOPOIETIC SYSTEM						
Lymph Node	(1)	(2)	(4)	(1)	(0)	(0)
Deep Cervical, Ectasia	1 (100%)	2 (100%)	4 (100%)	1 (100%)		
Deep Cervical, Hyperplasia, Lymphoid	1 (100%)	2 (100%)	4 (100%)	1 (100%)		
Lymph Node, Mesenteric	(10)	(0)	(1)	(1)	(10)	(10)
Atrophy				1 (100%)	6 (60%)	
Spleen	(10)	(10)	(10)	(10)	(10)	(10)
Atrophy			1 (10%)		10 (100%)	10 (100%)
Thymus	(10)	(0)	(1)	(10)	(9)	(10)
Atrophy						1 (10%)
Necrosis					1 (11%)	9 (90%)
INTEGUMENTARY SYSTEM						
None						
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
None						

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FISCHER 344 RATS MALE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG	4.0 G/KG
RESPIRATORY SYSTEM						
Lung	(10)	(0)	(1)	(1)	(10)	(10)
Congestion				1 (100%)		
Inflammation, Suppurative					1 (10%)	
Inflammation, Chronic	5 (50%)				3 (30%)	
Metaplasia, Osseous	1 (10%)					
Bronchus, Infiltration Cellular, Polymorphonuclear					1 (10%)	
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Suppurative				1 (10%)	3 (30%)	7 (70%)
Inflammation, Chronic			1 (10%)	6 (60%)	8 (80%)	
Metaplasia, Squamous						2 (20%)
Olfactory Epithelium, Degeneration				2 (20%)	8 (80%)	9 (90%)
Respiratory Epithelium, Necrosis						9 (90%)
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(1)	(1)	(10)	(10)
Anterior Chamber, Cornea, Inflammation, Suppurative					1 (10%)	
Harderian Gland	(10)	(10)	(10)	(10)	(9)	(10)
Pigmentation, Porphyrin	1 (10%)	3 (30%)	7 (70%)	8 (80%)	9 (100%)	10 (100%)
URINARY SYSTEM						
Kidney	(7)	(10)	(9)	(10)	(10)	(10)
Nephropathy	7 (100%)	10 (100%)	9 (100%)	8 (80%)	9 (90%)	1 (10%)
Nephrosis			1 (11%)	10 (100%)	9 (90%)	
Renal Tubule, Accumulation, Hyaline Droplet		10 (100%)	9 (100%)	10 (100%)		
Renal Tubule, Degeneration		10 (100%)	9 (100%)			
Renal Tubule, Necrosis					1 (10%)	1 (10%)

\*\*\* END OF MALE \*\*\*

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FISCHER 344 RATS FEMALE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG	4.0 G/KG
<b>Disposition Summary</b>						
Animals Initially in Study	10	10	10	10	10	10
Early Deaths						
Dosing Accident				1		1
Moribund Sacrifice					2	1
Natural Death					2	8
Survivors						
Terminal Sacrifice	10	10	10	9	6	
Animals Examined Microscopically	10	10	10	10	10	10
<b>ALIMENTARY SYSTEM</b>						
Intestine Small, Ileum	(10)	(0)	(0)	(1)	(10)	(10)
Atrophy					1 (10%)	
Intestine Small, Jejunum	(10)	(0)	(0)	(1)	(10)	(10)
Atrophy					1 (10%)	
Liver	(10)	(1)	(1)	(2)	(10)	(10)
Fibrosis, Focal				1 (50%)		
Hepatodiaphragmatic Nodule		1 (100%)	1 (100%)	1 (50%)	1 (10%)	
Inflammation, Chronic	1 (10%)			1 (50%)		
Bile Duct, Hyperplasia					1 (10%)	
Mesentery	(0)	(1)	(0)	(0)	(0)	(0)
Fat, Necrosis		1 (100%)				
Pancreas	(10)	(0)	(0)	(1)	(10)	(10)
Acinus, Atrophy, Focal	1 (10%)					
Stomach, Forestomach	(10)	(0)	(0)	(10)	(10)	(10)
Inflammation, Acute					4 (40%)	10 (100%)
Ulcer					2 (20%)	3 (30%)
<b>CARDIOVASCULAR SYSTEM</b>						
Heart	(10)	(0)	(0)	(1)	(10)	(10)
Inflammation, Chronic Active	1 (10%)					
<b>ENDOCRINE SYSTEM</b>						
None						
<b>GENERAL BODY SYSTEM</b>						

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None						
GENITAL SYSTEM						
Uterus	(10)	(0)	(0)	(1)	(10)	(10)
Endometrium, Hyperplasia, Cystic	1 (10%)				1 (10%)	
HEMATOPOIETIC SYSTEM						
Lymph Node	(1)	(3)	(5)	(1)	(1)	(0)
Deep Cervical, Ectasia	1 (100%)	3 (100%)	4 (80%)		1 (100%)	
Deep Cervical, Hyperplasia, Lymphoid	1 (100%)	3 (100%)	5 (100%)	1 (100%)	1 (100%)	
Lymph Node, Mesenteric	(10)	(0)	(0)	(3)	(10)	(10)
Atrophy				2 (67%)	4 (40%)	
Spleen	(10)	(0)	(10)	(10)	(10)	(10)
Atrophy				1 (10%)	10 (100%)	10 (100%)
Thymus	(10)	(0)	(1)	(10)	(10)	(10)
Atrophy					1 (10%)	
Hemorrhage			1 (100%)			
Necrosis					3 (30%)	8 (80%)
INTEGUMENTARY SYSTEM						
None						
MUSCULOSKELETAL SYSTEM						
None						
NERVOUS SYSTEM						
None						
RESPIRATORY SYSTEM						
Lung	(10)	(0)	(0)	(1)	(10)	(10)
Inflammation, Chronic	4 (40%)				4 (40%)	
Metaplasia, Osseous	1 (10%)				1 (10%)	1 (10%)
Alveolus, Necrosis, Acute						1 (10%)
Vein, Thrombosis				1 (100%)		

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FISCHER 344 RATS FEMALE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG	2.0 G/KG	4.0 G/KG
Nose	(10)	(0)	(10)	(10)	(10)	(10)
Inflammation, Suppurative				1 (10%)	6 (60%)	9 (90%)
Inflammation, Chronic				9 (90%)	4 (40%)	
Olfactory Epithelium, Degeneration				2 (20%)	7 (70%)	10 (100%)
Respiratory Epithelium, Necrosis				1 (10%)	2 (20%)	10 (100%)
Trachea	(10)	(0)	(0)	(1)	(10)	(10)
Inflammation, Chronic					1 (10%)	
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(1)	(10)	(10)
Cataract					1 (10%)	
Posterior Chamber, Exudate					1 (10%)	
Retina, Atrophy					1 (10%)	
Harderian Gland	(10)	(10)	(10)	(10)	(10)	(10)
Pigmentation, Porphyrin	3 (30%)	4 (40%)	2 (20%)	4 (40%)	5 (50%)	10 (100%)
Lacrimal Gland	(0)	(0)	(0)	(0)	(0)	(1)
Epithelium, Degeneration						1 (100%)
URINARY SYSTEM						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Atrophy						1 (10%)
Nephropathy	1 (10%)	2 (20%)	3 (30%)	4 (40%)	1 (10%)	
Nephrosis				10 (100%)	7 (70%)	
Renal Tubule, Degeneration		10 (100%)	10 (100%)			
Renal Tubule, Mineralization		2 (20%)	1 (10%)	1 (10%)	1 (10%)	1 (10%)
Renal Tubule, Necrosis					2 (20%)	2 (20%)

\*\*\* END OF REPORT \*\*\*